

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 June 2005 (23.06.2005)

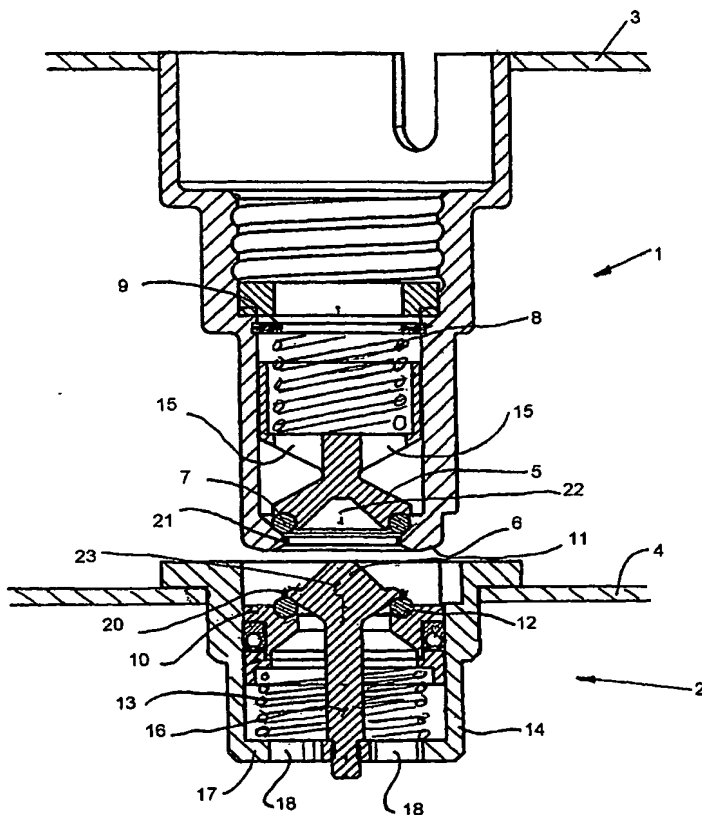
PCT

(10) International Publication Number
WO 2005/056093 A1

- (51) International Patent Classification⁷: **A61M 16/18**, F16L 29/04 (74) Agents: **ALBIHNS STOCKHOLM AB** et al.; P.O. Box 5581, S-114 85 Stockholm (SE).
- (21) International Application Number: PCT/SE2004/001831 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 9 December 2004 (09.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0303359-4 10 December 2003 (10.12.2003) SE
- (71) Applicant (for all designated States except US): **MAQUET CRITICAL CARE AB** [SE/SE]; Röntgenvägen 2, S-171 95 Solna (SE).
- (72) Inventor; and (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
- (75) Inventor/Applicant (for US only): **NIEMELÄ, Tapani** [SE/SE]; Bergsvägen 16, S-647 93 Mariefred (SE).

[Continued on next page]

(54) Title: A COUPLING SYSTEM



(57) Abstract: A coupling system for transfer of an anaesthetic liquid from a bottle (3) to a vaporizer (4), comprising a bottle part (1) comprising a first valve (5, 6) with a first spring-loaded valve body (5) and a first reactive body (6), and a vaporizer part (2) comprising a second valve (10, 11) with a second spring-loaded valve body (10) and a second reactive body (11), whereby a seal (7) is arranged between the first valve body (5) and the first reactive body (6) of the bottle part (1), and a further seal (12) is arranged between the second valve body (10) and the second reactive body (11) of the vaporizer part (2), is described. The function is improved by the seals (7, 12) being positioned and the reactive bodies (6, 11) being arranged so that, when the bottle part (1) and the vaporizer part (2) are coupled together, the seal (7) of the bottle part (1) abuts sealingly against the second reactive body (11), and the seal (12) of the vaporizer part (2) abuts sealingly against the first reactive body (6).



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*